

### REMARKS

Claims 1-4 are pending in this application, with claims 1, 2 and 4 being independent. Independent claim 4 has been amended. No new matter has been added by way of this amendment. The Applicants also appreciate the Examiner taking time out of his schedule to discuss the pending claims, some claim amendments and this action with Mr. Jeffrey J. Barclay (Reg. No. 48,950), representative of the Applicants, on 14 September 2007. Favorable reconsideration of the action is respectfully requested in view of the foregoing amendments and following comments of the Applicants, which are preceded by related comments of the Examiner in small bold type:

#### *Claim Objections*

**4. Claim 4 is objected to for the following minor informality: the claim recites in line 5, "movement information is associated with each 2D grid point." The claim is directed to an apparatus which is defined by its structure. The recited phrase appears to be a method step embedded in an apparatus claim with no associated apparatus. The Examiner suggests making the action be performed by the apparatus.**

As discussed with the Examiner during the telephone conversation on 14 September 2007 with Mr. Barclay, independent claim 4 has been amended. In particular, the phrase "movement information is associated with each 2D grid point" of line 5 of claim 4 has been incorporated into line 3 of the claim.

#### *Claim Rejections - 35 USC § 112*

**i. Claim 4 recites, "a computing device". The specification discloses a computer in figure 7 and pages 19 - 20. However, a computing device is a broader term that encompasses elements such as hard-wired logic and Field Programmable Gate Arrays. This subject matter was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.**

As discussed with the Examiner during the telephone conversation on 14 September 2007 with Mr. Barclay, claim 4 has been amended. In particular, the phrase "computing device" has been replaced with the phrase "computer."

**i. Regarding claim 4, the claim recites in the last line, "the simulated movement". The term appears to have insufficient antecedent basis. For the purpose of claim examination, the term is interpreted as, "the simulated advection".**

As discussed with the Examiner during the telephone conversation on 14 September 2007 with Mr. Barclay, independent claim 4 has been amended. In particular, the phrase "the simulated movement" has been replaced with the phrase "the simulated advection."

Based upon these amendments, independent claim 4 is believed to be in condition for allowance.

It is believed that all of the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

In view of the foregoing remarks, the entire application is now believed to be in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience.

Applicants' undersigned attorney can be reached at the address shown below. All telephone calls should be directed to the undersigned at 617-368-2191.


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The Applicants believe that no fees are due, however, if any fees are in fact due, please apply all charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 20567-023001.

Respectfully submitted,

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